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APPLICATION	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,610		11/26/2003	Gerald James Hess JR.	4069 / GETS 5294.2	4069 / GETS 5294.2 7096 EXAMINER	
321	7590	06/15/2004		EXAMI		
=	-	WERS LEAVITT A	LE, MA	LE, MARK T		
16TH FL		LITAN SQUARE		ART UNIT PAPER NUMBER		
ST LOU	IS, MO	63102		3617		
				DATE MAILED: 06/15/2004	,	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/722,610	HESS ET AL.	N I				
Office Action Summary	Examin r	Art Unit	1//				
	Mark T. Le	3617	M				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	1				
A SHORTENED STATUTORY PERIOD FOR REPL	V IS SET TO EXPIRE 2 MONTH(S) FROM					
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	cation.				
Status	,						
1) Responsive to communication(s) filed on							
,— .	action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 25-66 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 25-66 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/26/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

Application/Control Number: 10/722,610

Art Unit: 3617

DETAILED ACTION

- 1. The prior art cited in the indicated prior application has been reviewed.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 25, 27-29, 37-38, 40-41, 43-44, 46-47, 49, 51-53, 61-62 and 64-65 are rejected under 35 U.S.C. 102(b) as being anticipated by Spigarelli (US 4,401,035).

Spigarelli discloses a control system as recited in the instant claims, including first and second processing module 10 in first and second locomotives 10 and in communication with communication link 11 to vary the power operating mode of each locomotive to a different setting in accordance with predetermined parameters so as to minimize fuel consumption.

Regarding the instant claimed power operating mode of the locomotive being selected to optimize the braking of the first and second locomotives, note that the system of Spigarelli is inherently capable of the instant claimed intended use; therefore, the instant claimed intended use is considered meet. Further, Applicant should also consider lines 42-44, column 16 of Spigarelli; wherein, the deceleration of the consist, which is a part of a braking, is taken into account in determining the power settings of the locomotives units.

Regarding the operating parameter of the locomotive in which a crew member is riding is reduced as compared to that of another locomotive, note that in the control

Application/Control Number: 10/722,610

Art Unit: 3617

system of Spigarelli, the power operating mode of the rear locomotive is preferred to be reduced before other locomotive units toward to the front; therefore, during a crew member is riding in the rear locomotive that is also in a power reduction mode, the instant claimed feature is considered meet.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 25-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Curtis (US 5,969,643) in view of Spigarelli (US 4,401,035).

Curtis discloses a control system for a locomotive consist, similar to that recited in the instant claims; wherein, the locomotives are controlled from the lead locomotive through a radio communication control system, and a GPS link is provided to enhance

Application/Control Number: 10/722,610

Art Unit: 3617

the safety and efficiency of a power distribution system for controlling the tractive effort and braking capacity. However, it is noted that Curtis does not disclose different power operating modes.

Spigarelli, as described in paragraph 3 above, discloses a system for controlling a locomotive consist; wherein, the locomotives in the consist are configured for operating at different power operating modes to enhance the power efficiency of the system.

In view of Nickles, it would have been obvious to one skilled in the art to modify the system of Curtis to include different power operating modes, in a manner similar to that taught by Nickles, so as to enhance the power efficiency of the system.

Regarding the instant claimed communication link being a wired communication system note that the wired communication through train line 11 of Spigarelli. In view of Spigarelli, it would have been obvious to one skilled in the art to alternative convert the radio communication system of Curtis into a wired communication system where it is applicable, in a manner similar to that taught by Spigarelli, so as to achieve the expected advantages of wired communication links.

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant should further consider the structures of Montgomery, Hawthorne, Nickles '385, '364, and Perlmutter.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark T. Le whose telephone number is 703-308-3663. The examiner can normally be reached on Mon-Fri (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samuel Morano can be reached on 703-308-0230. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/722,610 Page 5

Art Unit: 3617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark T. Le Primary Examiner Art Unit 3617

mle 6/2/04